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Wayne E. Meyer Institute of Systems Engineering

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# Presentations

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# WAYNE E. MEYER INSTITUTE OF SYSTEMS ENGINEERING

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## Presentations

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### Guest Speakers

#### ARRANGED BY Professor William Solitario:

July 17, 2003, CDR Glaros, OSD, [Force Transformation](#)

July 31, 2003, RADM Ray Witter, [Systems Engineering of Undersea Warfare](#)

August 7, 2003, Sarah Sheard, [Taxonomies of Systems Engineering](#)

August 14, 2003, Dr. Jeff Beach, [Cost Engineering](#) and [Cost Engineering part 2](#)

August 28, 2003, Dave Massey Ball, Aerospace Corp., [Business Development in The New Navy](#)

September 3, 2003, Professor Solitario, [AEM/S Stepping Stone to Stealth](#)

October 16, 2003, Dave Byers, [NSWC Innovation Center](#)

October 30, 2003, CAPT George Clifford, [Ethics in the Middle](#)

January 22, 2004, LTC Thom Crouch, [Reassessing Weapons System Operational Test and Evaluation Methods](#)

February 19, 2004, Dr. Philip Dur, [Tactical Stealth: Visby as a Case Study](#)

February 26, 2004, Norm Sakamoto, [A Study of a Reconnaissance Surveillance UAV](#)

Amory Lovins, [Energy Efficiency Survey Aboard USS Princeton CG-59](#)

Amory Lovins, [More Fight, Less Energy, at Lower Cost](#)

March 4, 2004, Warren Ross, [CAD Design in Modern Day Products](#)

April 29, 2004, James King, [An Approach to Examining Technical Alternatives](#)

May 6, 2004, Rick Steiner, [Leveraging Software Approaches into SE](#)

June 3, 2004, CAPT (Ret) Robert Hartling, [An Approach to JBMC2 as a Combat System](#)

July 29, 2004, Dr. Paul Bevilaqua, [Joint Strike Fighter](#)

August 12, 2004, Jeff Grady, [Shipboard System Interface Development](#)

August 26, 2004, Norm Sakamoto, [The History of UAVs](#)

October 14, 2004, Arnold Easterly, [V-22](#)

October 21, 2004, Dr. Cliff Whitcomb, [Sea Connectors](#)

November 12, 2004, Chuck Gallagher, [Systems Engineering Management: an Israeli Perspective](#)

February 10, 2005, Tom McCammon, ["Expeditionary Logistics"](#)

#### ARRANGED BY RADM W.G. (Jerry) Ellis and RADM Rick Williams:

January 15, 2009, RADM Kenny, [Irregular Warfare](#).

February 5, 2009, Eryn Wezensky, [Marine Mammal/Sonar](#).

February 12, 2009, RADM Drennen, [NWMAWC USW Needs](#).

February 19, 2009, Dr. Scott Bloom, [Electric Field Sensors](#).

March 5, 2009, Doug Homer, [Unmanned Systems in Undersea Warfare](#).

April 9, 2009, Norm Scott, [AAI Unmanned Systems](#).

May 7, 2009, John Benedict, JHU/APL, [MIW via VT.C](#)

May 28, 2009, RADM Mahon, Deputy Director, Surface Warfare, OPNAV N86.B

July 16, 2009, RADM (Ret) John Padgett, VP, Electric Boat, GD, [New Concepts/Technologies](#).

July 23, 2009, John Benedict, JHU/APL, [ASW at NPS](#).

July 30, 2009, Rob Simmons, [Marine Mammal Program](#).

August 20, 2009, Dr. Tom Muir, [Acoustic Detection of SSPS and IEDs](#).

August 27, 2009, Dr. Harry cox, [RAP VLA Concept for Deep Ocean Surveillance](#).

September 3, 2009, Brian O'Neill, Northrup Grumman, NNS, [Lasers and Subs](#).

September 10, 2009, CAPT Robert Burke, Commodore, CSDS-12, [Sub Tactics/Technologies](#).

November 5, 2009, John Quigley, Systems Planning and Analysis, Inc., [OPNAV Analysis Process/POM Decisions/Fleet Impact](#).

January 7, 2010, RADM Bill Moran, [Maritime Aviation anti-Submarine Warfare](#).

January 14, 2010, Dr. Paul Gendron, [Total-Field Magnetic Matched-Field Tacking: performance limits for sparse configurations of total-field sensors with the incorporation of prior information](#).

January 28, 2010, Dr. Modi, [Agile Architecture](#).

February 18, 2010, CAPT (ret.) Karl Hasslinger, [Unmanned Payload Modules and Submarines](#).

March 4, 2010, CAPT (ret.) Dave Yoshihara, [Undersea Warfare in the Pacific - Challenges and Opportunities](#).

April 1, 2010, RADM (ret.) Matt Moffit, Capt (ret.) Don Randall & Mr. Ward Wilson, [Holistic View of USW Employing Current and Future Capability](#).

February 17, 2005, RADM Dennis Dwyer, [CVN 21 Future Carriers](#)

March 3, 2005, Dr. Swarn Kalsi, [Superconducting Devices: State of the Art](#)

April 28, 2005, R. Marler, [Entrepreneurship](#)

May 5, 2005, John Faulkner, [SE Integrating Functions](#)

May 12, 2005, Mark Schaeffer, [OSD Systems Engineering Perspective](#)

July 7, 2005, Dave Byers, NSWC, [Systems Engineering Application Caderock Innovation Center](#)

July 21, 2005, Gail Hahn, [Boeing, Composites, IPTs](#)

August 18, 2005, Dr. Richard Thome, [General Atomics, DC Superconducting Homopolar Motor](#)

August 25, 2005, Dr. Peter Poulsen, [Intuition in Technological Systems Development](#)

October 6, 2005, Dr. David Martin, [Autonomous Platforms in Persistent Littoral Underwater Surveillance: Scientific Engineering Challenges](#)

November 3, 2005, Jim O'Bryon, [Testing and Ethics](#)

November 17, 2005, Otto Jons, [Systems Engineering vs Complexity and System Dynamics](#)

December 1, 2005, Mr. Gary Langford, [A Systems Engineering Approach to Developing Business Models](#)

January 18, 2006, Dr. Michael Baker RADM (ret.), ["Strategic Medical & Biological Threats to the United States"](#)

January 26, 2006, Mrs. Deborah Bailey, Chief Engineer, B-2 Systems Group, [Systems Engineering Challenges to B-2](#)

March 2, 2006, RDML Bill McCarthy, [The Role of Operational Test and Evaluation in SE](#)

March 30, 2006, Dr. Joel Schindall, [Globalstar and Iridium: How do they Work and Where Did They Go Wrong?](#)

April 4, 2006, Mr. Tom Williams, [Beyond Systems Engineering](#)

April 27, 2006, Jack Abbott, [History of Modular Payload Ships 1975-2005](#)

Mr. John Kays, [Problem Definition and Requirements Analysis: a case study](#)

RADM Steve Eastburg, [A Warfighting Partnership: Aircraft and Carriers](#)

October 12, 2006, Mr. Charles Deneris, ["Systems Engineering at L3"](#)

November 7, 2006, James O'Bryon, [Modeling and Simulation](#)

Dr. Robert H Latiff, MGen (Ret), [A Discussion of Systems Engineering](#)

Professor Solitario, ["Design for Producibility"](#)

July 19, 2007, Ms. Dorothy McKinney, ["Software Systems Engineering Challenges"](#) (no link)

July 26, 2007, Mr. Jim King, NSWCCD, ["Systems Engineering Guide"](#) (no link)

August 16, 2007, Dan Dozier, Carderock, [Innovation Center](#)

August 23, 2007, Yacov Haimes, [Systems-Based Risk Assessment and Management](#)

November 1, 2007, Nick Willis, [Bistatic Radar](#) (Radar History)

January 31, 2008, Brad Mercer, [Thoughts on Architecting and How to](#)

April 1, 2010, RADM (ret.) Matt Moffit, [Aviation, Manned and Unmanned, for Today and Tomorrow.](#)

April 8, 2010, CAPT (ret.) Michael Hewitt, [The Submarine Control Room Optimized for Decision Making.](#)

April 22, 2010, CAPT (ret.) Jim Patton, [ASW in the Context of the War Plan That Was Developed for CINCPACFLT During the Cold War.](#)

July 8, 2010, SES Mark Gorenflo, Principal Deputy for the Deputy Under Secretary of the Navy for Plans, Policy, Oversight and Integration.

July 15, 2010, Mr. Scott Wilcox, Principal Technologist, Liquid Robotics, Inc., [Wave Glider Autonomous Surface Vehicle.](#)

July 15, 2010, Mr. Jeff Gossett, Technical Director, US Navy Arctic Submarine Laboratory, [ICEX March 2011 Ice Camp.](#)

July 29, 2010, Mr. Joe Johnson, Director for Advanced Development of Underseas Systems in the Integrated Warfare Systems Office, PEO IWS 5A, [PEO IS Undersea Systems Advanced Development Projects.](#)

August 5, 2010, CAPT (ret.) Paul Rinn, [Saving the Samuel B. Roberts.](#)

August 12, 2010, Mr. Andy Coon, DARPA Project Manager, Deep Sea Operations Program.

August 19, 2010, CAPT Robert Burke, Commodore, COMSUBDEVCON TWELVE, [Update on Submarine Operations, Exercises, Tactics, New Equipments, and Resulting Challenges/issues.](#)

August 26, 2010, MS Khine Latt, Program Manager and Senior Scientist at DARPA, [High Risk/High Payoff Challenges in Future Maritime Operations.](#)

September 2, 2010, Mr. Ken Walsh, President K & M Engineering, [ASW Torpedoes.](#)

October 14, 2010, CAPT Don Gerry, Deputy Chief of Staff for Training, Tactics and Knowledge Management on the staff of the Commander Submarine Force, US Pacific Fleet, [History of Submarine Force ASW Prediction and current Pacific Fleet OPLAN support.](#)

October 28, 2010, CDR John Mohn, Director of the Naval Warfare Dept and Director of the Submarine Warfare Operations Research Division, [Worldwide: Developments in Undersea Warfare.](#)

November 4, 2010, RADM (ret.) Ron Morgan, Mr. Thomas Shew and CAPT Chris Sprinkle (USNR, Ret.) of Raytheon, [Advancing the State of the Possible for Some Subsurface and Surface Weaponry.](#)

November 18, 2010, RADM (Ret.) Tony Lengerich and Peter Bostrom, Oracle America, Inc., [Oracle: Improving C2 of ISR.](#)

Feb. 10, 2011, Mr. Jeff Smith, Bluefin Robotics, [Deep Sea UUV Developments to Counter the Quiet Diesel Submarine Threat.](#)

Feb. 24, 2011, CAPT Michael Jabaley, Program Manager, VIRGINIA Class Submarines, [Virginia Class Program Management.](#)

March 3, 2011, Dr. James P. Galambos, Associate Director of the Advanced Technology Office at the Applied Research Laboratory with the Pennsylvania State University, [Large Diameter Unmanned Underwater Vehicles.](#)

March 10, 2011, RADM Scott Hebner, Commander, NMAWC on ASW Assessment process, overview of ASW/MIW capability and related discussion.

**Improve the Practice**

May 14, 2009, Dr. Phil DePoy, **Department of Homeland Security Science and Technology**

August 13, 2009, John Pazik, *"Ship Systems and Engineering S & T"*

Sept. 3, 2009, Mr. Chris Mc Kesson, **Counter-Intuitive Systems Engineering**

October 1, 2009, Dr Gerald Mulvey, **Up and Down the Systems Engineering "V"**

January 8, 2010, CAPT Warren Vaneman, PhD., *From "Cloud Space" to Functional Architectures: Architecting the NRO Ground*

January 28, 2010, Dr. Jay Modi, *"Transitioning Techniques and Agile Architecture"*

February 11, 2010, Mr. Tighe Parmenter, CAPT (ret.) *"UCAS in the Fleet-a Program Overview "*

February 18, 2010, Dr. Bohdan Oppenheim, **Lean Enablers for Systems Engineering**

March 4, 2010, Kathy Emery, **Surface Navy Combat Systems Engineering Strategy**

March 11, 2010, Dr. David Olwell, *"Accreditation: a Primer for SE students"*

April 8, 2010, Mr. Gary Langford, *"Cognitive Patterns of Terrorists, Their Organizations and Strategies"*

May 13, 2010, Professor David Jacques, LtCol-USAF (Ret.). Chair, Systems Engineering Program, Air Force Institute of Technology, **Early Application of Systems Engineering: A Historical Perspective**

July 15, 2010, CDR (Ret.) Gene Allen, Design Tools Development Branch, Navy Surface Warfare Center Carderock, **Simulation Supported Decision Making**

July 29, 2010, Ms Marion Eggenberger, OPNAV N41 **Affordability and Total Ownership Cost Reduction**

August 5, 2010, CAPT (ret.) Paul Rinn, *Saving the Samuel B. Roberts FFG.58 Lessons in Leadership*

August 12, 2010, Mr. Dick Marler, President/CEO Signal International Inc., **An Effective Safety Program and the Executive Role**

August 19, 2010, Mr. Andy Summers, Ship Design Manager for DDG 1000, *"USS Zumwalt Class for NAVSEA 05."*

October 7, 2010, Dr. Michael S. Baker, RADM Medical Corps, US Navy (ret.), *"Wounded Warrior."*

November 18, 2010, Anthony (Tony) Lengerich (Rear Admiral, ret. USN) and Peter Bostrom of Oracle, *"Integrating Reconnaissance, Surveillance and Target Acquisition (RSTA) with ISR Command and Control."*

January 13, 2011, Mr. Otto Jons, Chief Scientist, Advanced Marine Center, Computer Sciences Corporation, **"50 Years of Acquisition Reform: What Have We Learned?"**

Feb. 24, 2011, CAPT Michael Jabaley, Program Manager, VIRGINIA Class Submarines, **Virginia Class Program Management.**

March 3, 2011, **SEA-17B IPR.**

May 9, 2011, Dr. Timothy Chung, Assistant Professor Naval Postgraduate School, **Aerial Battle Bots: Many vs. Many UAV's.**

May 27, 2011, Systems Engineering Analysis Cohort 17, Capstone Project Team B, **Advanced Undersea Warfare Systems.**

June 2, 2011, Jeff Grady, [\*From Where We Are to Where We Are Going in Systems Engineering.\*](#)

August 19, 2011, Dr. George Sanzero, [\*Systems Engineering Meets Reality.\*](#)

December 15, 2011, Mr. James O'Byron, [\*Neturalizing the Number One Killer of American Fixed Wing Combat Aircraft Pilots.\*](#)

February 17, 2012, Bill Solitario, Instructor, [\*SI4000 Winter AY12 SE Colloquium: Unmanned Surface Vehicle Future Concept: Tailorable Remote/Unmanned Combat Craft.\*](#)

February 28, 2012, Len Losik, PhD, [\*Failure Analysis.\*](#)

March 5, 2012, Bill Solitario, [\*ME Capstone Project.\*](#)

April 6, 2012, SEA 18B Capstone Project, [\*Tailorable Remote Unmanned Combat Craft.\*](#)

April 10, 2012, SEA 18A Capstone Project, [\*Recapitalization of Amphibious Operations and Lift.\*](#)

May 17, 2012, Dr. Edward Craft, [\*Systems Engineering Challenges in Defense Acquisition.\*](#)

May 24, 2012, The Honorable James I. Finley Deputy Undersecretary of Defense Acquisition & Technology, [\*Systems Engineering Air, Land, Sea, Space & C4ISR Experiential Applications.\*](#)

August 2, 2012, SI4000, [\*Technical Writing Lecture.\*](#)

August 9, 2012, Mr. Ted Maciuba, [\*US ARMY Combat Vehicle Modernization.\*](#)

August 16, 2012, Lyla Englehorn, [\*Presentation Skills.\*](#)

November 29, 2012, James F. O'Bryon, [\*Risk/Benefit Considerations in Defense RDT & E and Acquisition: Another Look\*](#)

January 24, 2013, Russell Chan, [\*Systems Engineering - Concepts & Architectures\*](#)

February 14, 2013, John A. Thomas, President INCOSE, [\*A Call for Leadership\*](#)

July 11, 2013, RDML Joe Carnevale, (ret.), Senior Defense Advisor Shipbuilders Council of America, [\*Shipyard Industry Report\*](#)

August 7, 2013, Jennifer Maples, AAE Aviation Superintendent, City of Phoenix Aviation Department, [\*Systems Engineering Challenges on the PHX Sky Train Project\*](#)

October 24, 2013, Jennifer Maples, AAE Aviation Superintendent, City of Phoenix Aviation Department, [\*Communicating Project Requirements\*](#)

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